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Dated: May 6, 2004

Signature

*Victoria Parker*  
(Victoria Parker)

Docket No.: 59100DIV(30471)  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
James M. Fenton et al.

Application No.: 10/684,982

Confirmation No.:

Filed: October 14, 2003

Art Unit: N/A

For: MEMBRANE ELECTRODE ASSEMBLIES  
USING IONIC COMPOSITE  
MEMBRANES

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

Copies of the references on the PTO/SB/08 are not provided.

Those patent(s) or publication(s) which are marked with a double asterisk (\*\*) next to the Cite No. in the attached form PTO/SB/08 are not supplied because they were previously cited by or submitted to the Office in a prior application number 09/660,028, filed September 12, 2000 and relied upon in this application for an earlier filing date under 35 U.S.C. 120.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1105, under Order No. 59100DIV(30471). A duplicate copy of this paper is enclosed.

Dated: May 6, 2004

Respectfully submitted,

By 

Richard H. Newman

Registration No.: 41,222

EDWARDS & ANGELL, LLP

Three Stamford Plaza

301 Tresser Boulevard

Suite 1310

Stamford, Connecticut 06901

(203) 975-7505

Attorney for Applicant

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PTO/SB/08a/b (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>				<b>Complete if Known</b>	
				Application Number	10/684,982-Conf. #4721
				Filing Date	October 14, 2003
				First Named Inventor	James M. Fenton
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	59100DIV(30471)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA**	US-4,990,413	02-05-1991	MEI-TSU LEE	
	AB**	US-4,724,191	02-09-1988	AREKATTUTHAZHAYIL K. KURIAKOSE	
	AC**	US-5,082,472	01-21-1992	ROBERT S. MALLOUK	
	AD**	US-5,094,895	03-10-1992	PHILLIP A. BRANCA	
	AE**	US-5,183,545	02-02-1993	PHILLIP A. BRANCA	
	AF**	US-5,211,984	05-18-1993	MAHLON S. WILSON	
	AG**	US-5,234,777	08-10-1993	MAHLON S. WILSON	
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	AI**	US-5,401,408	03-28-1995	KAZUO UMEMURA	
	AJ**	US-4,073,752	02-14-1978	FLOYD L. RAMP	
	AK**	US-3,266,940	08-16-1966	P.D. CEASAR	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	BA	WO-96/29752-A1	09-26-1996	E.I. DU PONT DE NEMOURS AND COMPANY		
	BB	GB-1,523,259	03-24-1976			
	BC	JP-61-067789-A	04-07-1986			
	BD	JP-62-240627	10-16-1986			
	BE	JP-62-280230	12-05-1987			
	BF	JP-62-280231	12-05-1987			

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \*\*CITE NO.: Those patent(s) or publication(s) which are marked with an double asterisk (\*\*) next to the Cite No. are not supplied because they were previously cited by or submitted to the Office in a prior application relied upon in this application for an earlier filing date under 35 U.S.C. 120. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author ( in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	Lin, J.C. et al., 1999, "Preparation of High Temperature Composite Membranes for Hydrogen Proton Exchange Fuel Cell", Hazardous and Industrial Wastes; Proceeding of the 31st Mid-Atlantic Industrial and Hazardous Waste Conference, Technomic Publishing Co.,	
	CB	Malhotra, S. et al., "Membrane-Supported Nonvolatile Acidic Electrolytes Allow Higher Temperature Operation of Proton Exchange Membrane Fuel Cells", Journal of the Electrochemical Society, Vol. 144, No. 2, L-23-L26, 1997.	

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature	Date Considered
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